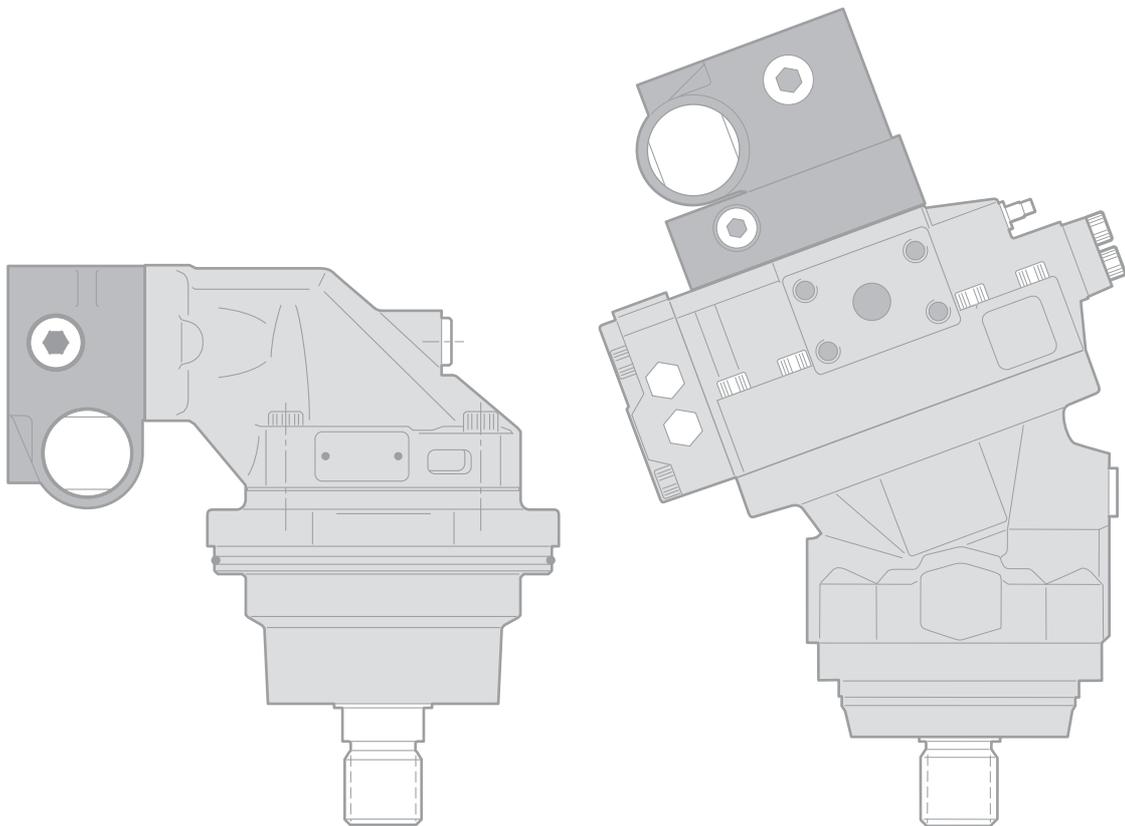




Mobile motor/pump accessories

*Catalogue HY17- 8258/UK
November 2004*



Integrated flushing valve (F12-30, -40, -60, -80)

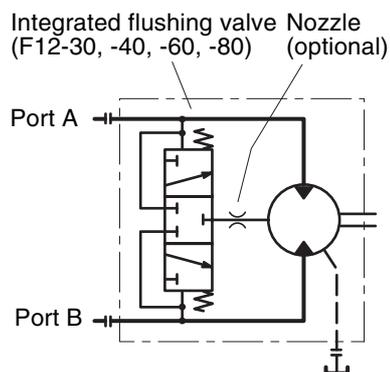
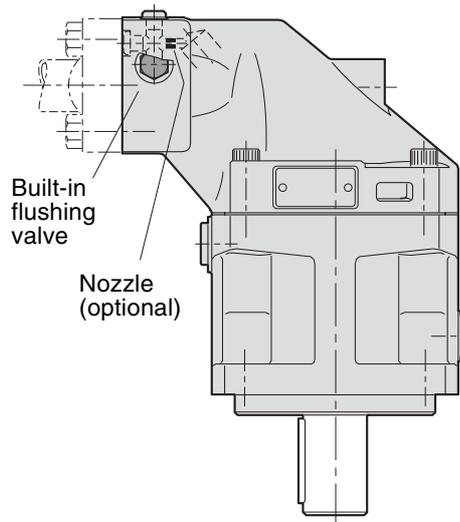
General information

The integrated flushing valve supplies the motor with a cooling flow through the case which may be required when operating at high speeds and power levels.

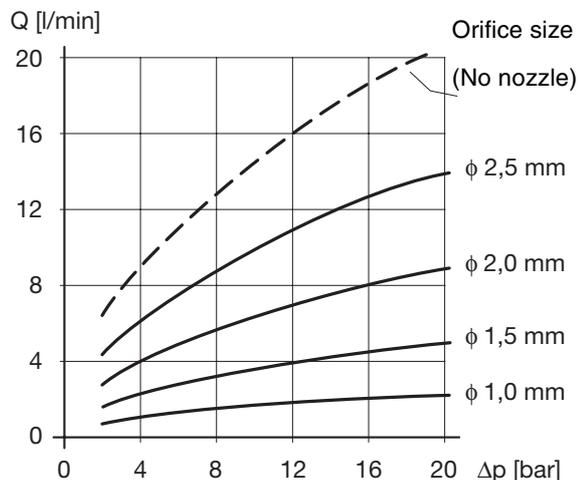
In a closed loop hydrostatic transmission the flushing valve provides that cool fluid from the charge circuit is constantly added to the main circuit.

The flushing valve consists of a 'three-position', three-way spool valve which connects the low pressure side of the main hydraulic circuit with the motor case. The valve opens at a pressure differential between port A and port B of about 14 bar.

In order to limit the flow, a nozzle with a suitable orifice is available from Parker Hannifin (Mobile Controls Div.); refer to the table below right. The diagram to the right shows flow versus differential pressure at selected orifice sizes.



Hydraulic schematic.



Flow versus pressure differential (port A or B to tank).

Ordering code

Example: F12 - 80 - MF - IH - K - 000 - **L01** - 0

Standard F12 ordering code
(for F12-30, -40, -60, -80)

Nozzle designation
L01 (refer to the table)

NOTE: FV13 flushing valve block for F12-110 shown on next page.

Restrictor nozzles

The following table shows currently available nozzles and the corresponding F12 ordering code designation (F12-30/-40/-60: M5x0.8 thread; F12-80: M10x1.0).

Designation	Orifice size [mm]	Part no. for F12-30/-40/-60	Part no. for F12-80
L01 (std.)	1.3	370 4595	379 4413
L02	0.8	370 4590	379 3326
L03	1.0	370 4592	379 4410
L04	1.2	370 4594	379 4412
L05	1.5	370 4597	379 4415
L06	1.7	370 5821	379 4417
L07	2.0	370 5824	379 4420
L08	1.6	370 4597	379 4416
L09	1.4	370 4596	379 4414
L10	2.5	3783025	3783029

NOTE: L00 - no nozzle.